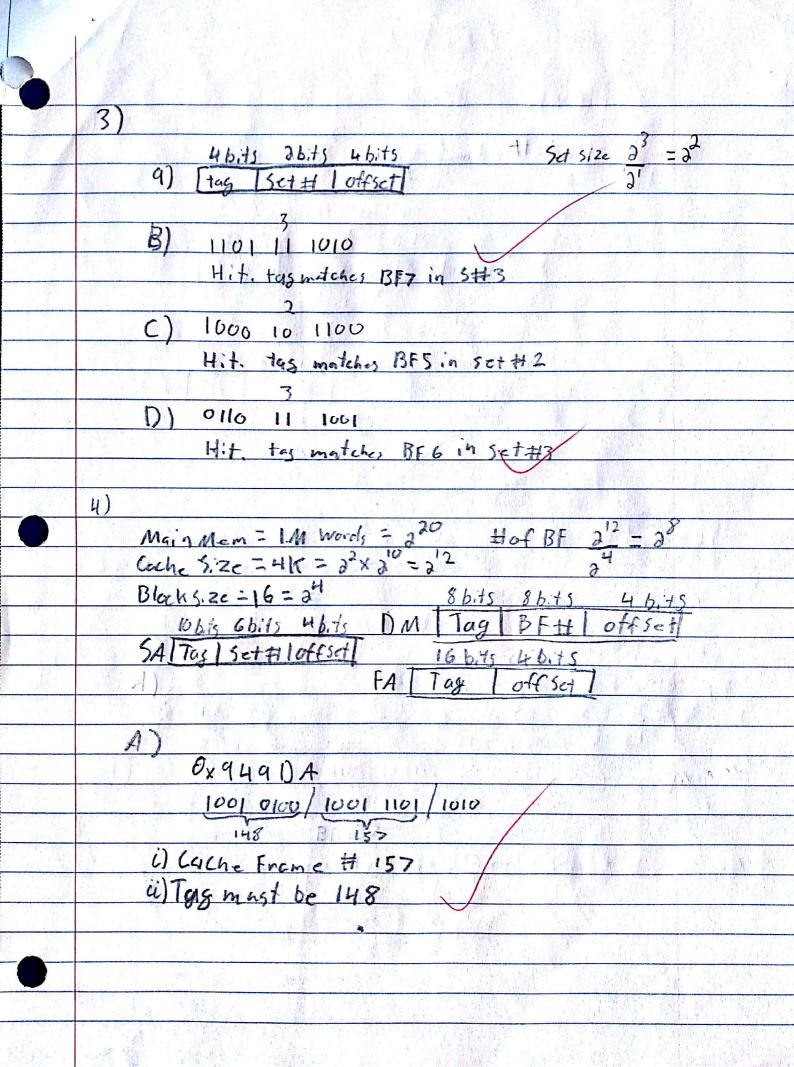
Cahlen Brascheau # 154 HW #9 $8 M = 2^{23}$ $32 = 2^{5}$ $BF = 2^{16} = 2^{11}$ 7 bits 11 bits 5 bits Tas BF# Offset 23-m bits m bits Tag offset block size: 2m 9 bits 8 bits 6 bits blocksize: 26 # of BF = 2'6 = 2'0 # of sets 210 = 28 2 3 bits 4 bits 3 6.45 Block size=2+ Tag | BF# | Offset) Main Mem = 16x 64 = 1024= 210 to B. mory (37A)= 110/11/10 Coche size = 8 x 16 = 128 = 27 # of BF = 2 = 23 Hit. Tas matches BF75 tag. () to Binary (226)= 100/0 10/100 Hit. Tag matches BF2's tag. D) to Binary (189) =0110 111001 miss. tas doean't match BF3's toc-



1001 0100 1001 1101 1010 6) set # 29 ii) Tag = 10 bits (ii) 10 0101 0010 = 252 1001 0100 1001 1101 Tag = 949D Main $Mcm = 32K = 2^5 \times 2^{10} = 2^{15}$ # of $BF = 2^{12} = 2^9$ Cache Size = $4K = 2^2 \times 2^{10} = 2^{12}$ $= 2^9$ Bloch Size = $8 = 2^3$ 12 Bits 3 bits 2 comparators Size = 12 bits 36:45 96:45 36:45 DM | tag | BF# | off set | Tag = 36:15 I come a rater needed.

Hot sets = 29 = 27 # of BF = 2 = 29 Main Mem: 8 k blocks: 3 x 210 x 2= 216 Coche size = 8 = 2 | blocks = 29 x23 = 212 Blocksize = 8 = 2 46.45 96: 96.45 36.45 BF# 1 off Set 76.15 3 6145 16 bits 13 bits 3 bits FA Trag loff set (A49 1100 1010 0100 1001 Off set = 001 () 1010 0100 1001 BF#329 (c) 1 comparator of width 4 bits 1100 1010 0100 1001 4 comparators, 6 bits wide The zation

